APPENDIX C CALIFORNIA NATURAL DIVERSITY DATABASE RECORDS





Full Condensed Report for Selected Elements - Multiple Records per Page Anniella pulchra pulchra silvery legless lizard Element Code: ARACC01012 **NDDB Element Ranks** Other Lists Federal: None Global: G3G4T3T4Q CDFG Status: SC State: S3 State: None Habitat Associations -General: SANDY OR LOOSE LOAMY SOILS UNDER SPARSE VEGETATION. Micro: SOIL MOISTURE IS ESSENTIAL. THEY PREFER SOILS WITH A HIGH MOISTURE CONTENT. Map Index: 42260 Occurrence No. 12 EO Index: 42260 Dates Last Seen 2004-04-26 Occ Rank: Good Element: Origin: Natural/Native occurrence Site: 2004-04-26 Presence: Presumed Extant 2009-02-24 Trend: Unknown Record Last Updated: Quad Summary: Jersey Island (3812116/480C) County Summary: Contra Costa Lat/Long: 38.003420 / -121.727420 02N Township: Zone-10 N4206958 E611726 UTM: Range: 02E 12.7 acres Mapping Precision: SPECIFIC Section: 23 Qtr: NW Area: 10 ft Symbol Type: POLYGON Meridian: Elevation: Location: EAST BAY REGIONAL PARK LEGLESS LIZARD PRESERVE, EAST OF THE JUNCTION OF HWY 4 AND BIG BREAK ROAD, NORTH OF OAKLEY. Location Detail: SITE IS LOCATED ALONG THE NORTH SIDE OF THE RAILROAD TRACKS. EBRPD LAND HAS BECOME DENSELY VEGETATED BY NON-NATIVE GRASSI AND SINCE 1982 Ecological: HABITAT CONSISTS OF DISTURBED INLAND DUNE HABITAT, WHICH IS BEING ENCROACHED UPON BY NON-NATIVE GRASSLAND. ANTIOCH DUNES EVENING PRIMROSE IS ALSO FOUND IN THE VICINITY. AREA BURNED IN 1999. Threat: THREATS INCLUDE SMALL SIZE OF SITE, ISOLATION OF HABITAT, FERAL CATS, AND ENCROACHMENT OF NON-NATIVE GRASSLAND. General: MVZ: 12433; MAR 1930, 233384; APR 1987, 228815-16; 19 APR 1998. GOOD #S, SPRING 1982. CAS 178522; 3 MAR 1982. NO ANIMALS OBS IN 1995-97. 2 AD OBS, 15 MAR 1998. 2 AD/1 JUV OBS, 3 APR 2000. 1 ADULT FOUND DEAD AT BASE OF DUNES, 26 APR 2004. Owner/Manager: EBRPD, PVT-SANTA FE RR Occurrence No. 21 Map Index: 54714 EO Index: 54714 **Dates Last Seen** 2004-07-26 Element: Occ Rank: None 2005-03-30 Origin: Natural/Native occurrence Site: Presence: Possibly Extirpated Record Last Updated: 2006-10-23 Trend: Unknown Quad Summary: Brentwood (3712186/463B) County Summary: Contra Costa Lat/Long: 37.987780 / -121.686920 Township: 02N UTM: Zone-10 N4205273 E615306 Range: 03E 9.2 acres Mapping Precision: SPECIFIC 30 Qtr: SW Area: Section: Symbol Type: POLYGON Elevation: Meridian: M Location: 0.2 MILE SOUTH OF CYPRESS ROAD, 1.5 MILES SE OF OAKLEY Location Detail: DUNES ARE ISOLATED BY AGRICULTURAL ACTIVITIES; OFTEN REFERRED TO LOCALLY AS "SAND MOUNDS." LEAF LITTER FROM A FALLEN LIVE OAK AND SHEET METAL THAT IS STREWN ABOUT THE SITE APPEARS TO PROVIDE COVER. NO HABITAT LEFT AFTER GRADING. Ecological: HABITAT CONSISTS OF INTERIOR DUNES CHARACTERIZED BY SANDY SOILS; VEGETATION OFTEN INCLUDES NON-NATIVE GRASSES, CROTON CALIFORNICUS, OENOTHERA DELTOIDES COGNATA, ERIOGONUM GRACILE VAR GRACILE, AND LESSINGIA GLANDULIFERA VAR GLANDULIFERA Threat: THREATENED BY PROPOSED DEVELOPMENT.

General: 28 JAN 2004, 1 ADULT FOUND UNDER A SHEET OF CORRUGATED METAL. 1 ADULT OBSERVED, 29 JAN 2004. 5 ADULTS OBSERVED, 28 JUN; 3

ADULTS OBSERVED, 26 JUL 2004. SITE GRADED SOMETIME PRIOR TO 30 MAR 2005; PRESUMED EXTIRPATED.

Owner/Manager: PVT-CONCO

Anniella pulchra pulchra silvery legless lizard Element Code: ARACC01012 Other Lists NDDB Element Ranks Status Federal: None Global: G3G4T3T4Q CDFG Status: SC State: S3 State: None Habitat Associations General: SANDY OR LOOSE LOAMY SOILS UNDER SPARSE VEGETATION. Micro: SOIL MOISTURE IS ESSENTIAL. THEY PREFER SOILS WITH A HIGH MOISTURE CONTENT. Dates Last Seen Occurrence No. 41 Map Index: 66802 EO Index: 66958 2005-04-25 Element: Occ Rank: Good 2005-04-25 Origin: Natural/Native occurrence Site: Presence: Presumed Extant 2006-10-23 Trend: Unknown Record Last Updated: Quad Summary: Brentwood (3712186/463B) County Summary: Contra Costa Lat/Long: 37 986460 / -121 688059 Township: 02N UTM: Zone-10 N4205125 E615209 Range: 03E 10.0 acres Mapping Precision: SPECIFIC 30 Qtr: SW Section: 27 ft Symbol Type: POLYGON Elevation: Meridian: M Location: 0.3 MILE SOUTH OF CYPRESS ROAD, 1.5 MILES SE OF OAKLEY. Location Detail: RAILROAD TRACKS RUN ALONG THESE DUNES FROM NW TO SE; DUNES ARE OTHERWISE ISOLATED BY AGRICULTURAL FIELDS, RESIDENTIAL DEVELOPMENT, RAILROAD TRACKS, AND A "JUNK YARD." SCRAP METAL AND OTHER DEBRIS PROVIDE "COVER" FOR LEGLESS LIZARDS ON-SITE Ecological: HABITAT CONSISTS OF INTERIOR DUNES, CHARACTERIZED BY SANDY SOILS ("SAND MOUNDS"). VEGETATION IS DOMINATED BY CROTON CALIFORNICUS, OENOTHERA DELTOIDES COGNATA, ERIOGONUM GRACILE VAR. GRACILE, AND LESSINGIA GLANDULIFERA VAR. Threat: THREATENED BY RESIDENTIAL DEVELOPMENT TO THE NORTH AND THE POTENTIAL FOR RESIDENTIAL DEVELOPMENT ON-SITE IN THE **FUTURE** General: 1 ADULT OBSERVED ON 17 MAR; 4 ADULTS OBSERVED ON 25 APR 2005. Owner/Manager: PVT, BNSF RAILROAD Dates Last Seen Occurrence No. 56 Map Index: 73625 EO Index: 74610 Element: 1975-06-18 Occ Rank: Unknown 1975-06-18 Origin: Natural/Native occurrence Site: Presence: Presumed Extant Record Last Updated: 2009-02-24 Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.01421º / -121.76729º 02N Township: UTM: Zone-10 N4208109 E608209 02E Range: Mapping Precision: NON-SPECIFIC Radius: 2/5 mile Section: 16 Qtr: XX Elevation: 80 ft Symbol Type: POINT Meridian: M Location: WEST OF THE ANTIOCH BRIDGE (HWY 160), SOUTH SHORE OF THE SAN JOAQUIN RIVER, EAST ANTIOCH. Location Detail: MAPPED ACCORDING TO LOCATION GIVEN NOT COORDINATES. 3 LOCALITIES NAMED, "WILBUR RD., 2 MI E OF ANTIOCH", "1 MI E ANTIOCH, ALONG SACRAMENTO RIVER" & "1 MI E ANTIOCH". General: MVZ # 33860, COLLECTED 15 SEP 1940, MVZ #71919-23, COLLECTED 30 APR 1961, MVZ #117600, NO DATE GIVEN, & MVZ # 128950, COLLECTED 18 JAN 1975. Owner/Manager: PVT Dates Last Seen Occurrence No. 57 Map Index: 10572 EO Index: 74612 1966-08-31 Element: Occ Rank: Unknown 1966-08-31 Origin: Natural/Native occurrence Site: Presumed Extant Presence: 2009-02-26 Record Last Updated: Quad Summary: Antioch North (3812117/481D), Antioch South (3712187/464A) County Summary: Contra Costa Lat/Long: 38.002820 / -121.803000 Township: 02N Range: UTM: Zone-10 N4206803 E605091 02E Mapping Precision: NON-SPECIFIC Radius: Section: 19 Qtr: XX Elevation: 50 ft Symbol Type: POINT Meridian: Location: ANTIOCH. Location Detail: NO OTHER LOCATION INFORMATION GIVEN. MAPPED ACCORDING TO NAMED LOCATION (ANTIOCH) & NOT THE COORDINATES GIVEN BY MVZ WHICH ARE TO THE SW WITH A MAX ERROR DISTANCE OF 2.03 MILES. General: MVZ # 33790 COLLECTED 11 FEB1940; MVZ # 94788-89 COLLECTED 21 MAR 1969, & MVZ # 128949 COLLECTED 3 APR 1971. Owner/Manager: UNKNOWN

Anniella pulchra pulchra

silvery legless lizard

Status

NDDB Element Ranks

Federal: None

State: None

State: None

State: S3

General: SANDY OR LOOSE LOAMY SOILS UNDER SPARSE VEGETATION.

 Occurrence No.
 69
 Map Index:
 36917
 EO Index:
 74654
 — Dates Last Seen

 Occ Rank:
 Unknown
 Element:
 1966-08-31

Origin: Natural/Native occurrence Site: 1966-08-31

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 2009-02-24

Quad Summary: Antioch North (3812117/481D)

Micro: SOIL MOISTURE IS ESSENTIAL. THEY PREFER SOILS WITH A HIGH MOISTURE CONTENT.

 County Summary:
 Contra Costa

 Lat/Long:
 38.01420° / -121.78892°
 Township:
 02N

 UTM:
 Zone-10 N4208082 E606311
 Range:
 02E

 Area:
 180.4 acres
 Mapping Precision:
 SPECIFIC
 Section:
 18
 Qtr:
 XX

Symbol Type: POLYGON

Meridian:

Μ

Location: ANTIOCH DUNES.

Location Detail: MAPPED ACCORDING TO LOCATION GIVEN NOT COORDINATES GIVEN BY MVZ.

General: MVZ #79086 - 79092 COLLECTED 21 FEB 1965 BY RICHARD SAGE. MVZ #81294 COLLECTED 31 AUG 1966 BY JAMES LYNCH.

Owner/Manager: USFWS-ANTIOCH DUNES NWR, PVT

Elevation: 25 ft

Threat: BURNING, DISKING, SAND MINING, POACHING

Owner/Manager:

Apodemia mormo langei Lange's metalmark butterfly Element Code: IILEPH7012 Other Lists NDDB Element Ranks - Status Federal: Endangered Global: G5T1 CDFG Status: State: None State: S1 - Habitat Associations -General: INHABITS STABILIZED DUNES ALONG THE SAN JOAQUIN RIVER. ENDEMIC TO ANTIOCH DUNES, CONTRA COSTA COUNTY. Micro: PRIMARY HOST PLANT IS ERIOGONUM NUDUM VAR AURICULATUM; FEEDS ON NECTAR OF OTHER WILDFLOWERS, AS WELL AS HOST PLANT. Occurrence No. 1 Map Index: 72474 EO Index: 12922 - Dates Last Seen 2008-08-29 Element: Occ Rank: Unknown * SENSITIVE * 2008-08-29 Origin: Natural/Native occurrence Site: Presence: Presumed Extant Record Last Updated: 2008-09-02 Trend: Decreasing Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: * SENSITIVE * Township: UTM: Range: Radius: Mapping Precision: Section: Qtr: Elevation: Symbol Type: Meridian: $\textbf{Location:} \ \ ^* SENSITIVE^* \ \ Location \ information \ suppressed.$ Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812. Ecological: LARVAL FOODPLANT IS ERIOGONUM NUDUM AURICULATUM & MUST BE > 5 YRS OLD TO BE USED. SITE BEING RESTORED BY WEED REMOVAL & PLANTING BUCKWHEAT. 1993: 2.5 AC OF DUNES CREATED FROM 7,000 CUBIC YDS OF TRUCKED IN SAND. 2008: RESTORATION CONTINUES.

Buteo swainsoni Element Code: ABNKC19070 Swainson's hawk NDDB Element Ranks Other Lists Status Federal: None Global: G5 CDFG Status: State: S2 State: Threatened **Habitat Associations** General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS. **Dates Last Seen** Occurrence No. 1312 Map Index: 55799 EO Index: 55815 2006-04-28 Element: Occ Rank: Fair Site: 2006-04-28 Origin: Natural/Native occurrence Presence: Presumed Extant 2007-11-26 Record Last Updated: Trend: Unknown Quad Summary: Brentwood (3712186/463B) County Summary: Contra Costa Lat/Long: 37 988910 / -121 681340 Township: 02N UTM: Zone-10 N4205405 E615794 Range: 03E 9.0 acres Mapping Precision: SPECIFIC Section: 30 Qtr: SE Area: Symbol Type: POLYGON М Elevation: 10 ft Meridian: Location: EAST SIDE OF MACHADO LANE, ~600' SOUTH OF EAST CYPRESS ROAD, 1,5 MILES ESE OF OAKLEY. Location Detail: NEST TREE LOCATED BEHIND THE RESIDENCE AT 821 MACHADO LANE; 2004 NEST LOCATED AT THE 90% HEIGHT OF A 150' EUCALYPTUS. Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDING HABITAT CONSISTS OF AGRICULTURAL FIELDS (WHEAT, ROW CROPS, ORCHARDS). DOMINANT ROW TREES ALONG CYPRESS ROAD ARE EUCALYPTUS GLOBULUS AND ROBINIA PSEUDOACACIA General: 2 ADULTS OBSERVED (NO NEST SEEN) ON 23 & 26 JUL 2002 ~0.4 MILE WEST OF THE 2004 NEST SITE. ON 11 MAY 2004, FEMALE OBSERVED ON NEST; MALE OBSERVED FORAGING AND PERCHING IN TREES ALONG CYPRESS ROAD. PAIR OBSERVED NEST-BUILDING ON 28 APR 2006. Owner/Manager: PVT EO Index: 63712 **Dates Last Seen** Occurrence No. 1600 Map Index: 63617 2005-06-29 Element: Occ Rank: None Site: 2005-XX-XX Origin: Natural/Native occurrence Presence: Extirpated 2006-01-09 Record Last Updated: Trend: Decreasing Quad Summary: Brentwood (3712186/463B) County Summary: Contra Costa Lat/Long: 37.99088º / -121.66929º Township: 02N UTM: Zone-10 N4205639 E616849 Range: 03E 80 meters Mapping Precision: SPECIFIC Qtr: NW Radius: Section: 29 Elevation: 10 ft Symbol Type: POINT Meridian: M Location: NORTH EDGE OF EAST CYPRESS LAKES ROAD, JUST WEST OF KNIGHTSEN AVENUE, 2 MILES EAST OF OAKLEY Location Detail: 2005 NEST WAS LOCATED DIRECTLY OVER THE CENTER OF THE WESTBOUND TRAFFIC LANE OF EAST CYPRESS LAKES ROAD. ECOLOGICAL: NEST TREE WAS A WALNUT WITHIN A ROW OF PLANTED WALNUT TREES ALONG THE NORTH EDGE OF THE ROAD: AGRICULTURAL FIELDS FOUND TO THE NORTH AND A HORSE FARM TO THE SOUTH. Threat: THREATENED BY NEST TREE REMOVAL: 2005 NEST TREE WAS REMOVED TO ACCOMODATE PIPELINE INSTALLATION. General: 2 ADULTS AND 2 JUVENILES OBSERVED AT THE NEST ON 29 JUN 2005; NEST TREE LATER WAS REMOVED. Owner/Manager: PVT **Dates Last Seen** Occurrence No. 1654 Map Index: 65611 EO Index: 65690 Element: 2003-04-30 Occ Rank: Unknown Origin: Natural/Native occurrence 2003-04-30 Site: Presumed Extant Presence: 2006-08-03 Record Last Updated: Trend: Unknown Quad Summary: Bouldin Island (3812115/480D) County Summary: Contra Costa Lat/Long: 38.060060 / -121.620850 Township: 03N UTM: Zone-10 N4213377 E620988 Range: 03E Mapping Precision: SPECIFIC Qtr: SW Radius: 35 Section: Elevation: Symbol Type: POINT Meridian: M Location: FALSE RIVER, BETWEEN WEBB TRACT AND FRANKS TRACT, ~10 MILES NE OF ANTIOCH. Location Detail: NEST WAS LOCATED IN THE NORTHERN BRANCH, 3/4 OF THE WAY TO THE TOP. Ecological: NEST TREE WAS A WILLOW, WHICH HANGS OVER THE WATER; SURROUNDED BY RIPARIAN IN ALL DIRECTIONS. MASON'S LILEAOPSIS WAS OBSERVED IN THE COVE JUST WEST OF THE NEST. General: NESTING OBSERVED ON 30 APR 2003, BUT NO CHICKS WERE SEEN. Owner/Manager: UNKNOWN

Buteo swainsoni Swainson's hawk Element Code: ABNKC19070 Other Lists NDDB Element Ranks Status Federal: None Global: G5 CDFG Status: State: Threatened State: S2 - Habitat Associations -General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS. Occurrence No. 1713 Map Index: 70510 EO Index: 71415 - Dates Last Seen 2006-04-19 Element: Occ Rank: Fair Site: 2006-04-19 Origin: Natural/Native occurrence Presence: Presumed Extant Record Last Updated: 2007-11-26 Trend: Unknown Quad Summary: Brentwood (3712186/463B) County Summary: Contra Costa Lat/Long: 37.98555º / -121.66776º Township: 02N UTM: Zone-10 N4205048 E616992 Range: 03E Radius: 80 meters Mapping Precision: SPECIFIC Section: 29 Qtr: SE Elevation: 12 ft Symbol Type: POINT Meridian: Μ Location: EAST SIDE OF KNIGHTSEN AVE, 0.35 MILE SOUTH OF THE INTERSECTION OF KNIGHTSEN AVE & EAST CYPRESS ROAD, NORTH OF KNIGHTSEN

Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY A DEFUNCT AGRICULTURAL FIELD OF NON-NATIVE GRASSES AND WEEDY SPECIES.

General: 2 ADULTS OBSERVED ON THE NEST ON 19 APR 2006.

Owner/Manager: UNKNOWN

 Dendroica petechia brewsteri

 yellow warbler
 Element Code: ABPBX03018

 Status
 NDDB Element Ranks
 Other Lists

 Federal:
 None
 Global: G5T3?
 CDFG Status: SC

 State:
 None
 State: S2

Habitat Associations

General:

RIPARIAN PLANT ASSOCIATIONS. PREFERS WILLOWS, COTTONWOODS, ASPENS, SYCAMORES, & ALDERS FOR NESTING & FORAGING.

 Occurrence No. 2
 Map Index:
 08079
 EO Index:
 24917
 — Dates Last Seen

 Occ Rank:
 Unknown
 Element:
 1975-06-13

 Occ Rank:
 Unknown
 Element:
 1975-06-13

 Origin:
 Natural/Native occurrence
 Site:
 1975-06-13

 Presence:
 Presumed Extant
 1975-06-13

Trend: Unknown Record Last Updated: 1989-08-10

Quad Summary: Inverness (3812217/485D)

Micro: ALSO NESTS IN MONTANE SHRUBBERY IN OPEN CONIFER FORESTS.

County Summary: Marin

 Lat/Long:
 38.06047° / -122.81333°
 Township:
 03N

 UTM:
 Zone-10 N4212541 E516375
 Range:
 09W

 Radius:
 1/5 mile
 Mapping Precision: NON-SPECIFIC
 Section:
 35
 Qtr: XX

 Elevation:
 20 ft
 Symbol Type: POINT
 Meridian:
 M

Location: A HALF A MI SW OF POINT REYES STATION - OLEMA MARSH.

Location Detail: NEST IN WILLOW.

General: FROM NORTH AMERICAN NEST RECORD CARD PROGRAM.

Owner/Manager: UNKNOWN

Geothlypis trichas sinuosa Element Code: ABPBX1201A saltmarsh common yellowthroat Other Lists NDDB Element Ranks Status Federal: None Global: G5T2 CDFG Status: SC State: S2 State: None **Habitat Associations** General: RESIDENT OF THE SAN FRANCISCO BAY REGION, IN FRESH AND SALT WATER MARSHES. Micro: REQUIRES THICK, CONTINUOUS COVER DOWN TO WATER SURFACE FOR FORAGING; TALL GRASSES, TULE PATCHES, WILLOWS FOR NESTING. Dates Last Seen Occurrence No. 105 Map Index: 60047 EO Index: 60083 2004-05-24 Element: Occ Rank: Good Origin: Natural/Native occurrence 2004-05-24 Site: Presence: Presumed Extant 2005-02-17 Record Last Updated: Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Sacramento Lat/Long: 38 047550 / -121 828600 Township: 02N UTM: Zone-10 N4211739 E602780 Range: 01E Mapping Precision: NON-SPECIFIC Section: 02 Qtr: E Area: 6 ft Symbol Type: POLYGON Elevation: Meridian: M Location: WEST SIDE OF THE NW ISLAND WITHIN THE SHERMAN ISLAND WILDLIFE AREA, APPROXIMATELY 2 MILES NORTH OF ANTIOCH. Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN. Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND PHRAGMITES AUSTRALIS General: 3 TO 11 INDIVIDUALS (BREEDING) DETECTED AT 4 DIFFERENT POINTS BETWEEN 5 JAN AND 24 MAY 2004. 2 POINTS SAMPLED 2X AND 2 POINTS SAMPLED 3X DURING THE SURVEY PERIOD. Owner/Manager: DFG-LOWER SHERMAN ISL WA EO Index: 60097 **Dates Last Seen** Occurrence No. 106 Map Index: 60061 Element: 2004-05-24 Occ Rank: Good Natural/Native occurrence 2004-05-24 Origin: Site: Presence: Presumed Extant 2005-02-17 Record Last Updated: Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Sacramento Lat/Long: 38.051780 / -121.820100 Township: 02N UTM: Zone-10 N4212218 E603520 Range: 01E Mapping Precision: NON-SPECIFIC Area: Section: 01 Qtr: XX Elevation: 7 ft Symbol Type: POLYGON Meridian: М Location: CENTRAL PORTION OF THE NW ISLAND WITHIN THE SHERMAN ISLAND WILDLIFE AREA, APPROXIMATELY 2 MILES NORTH OF ANTIOCH. Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN. Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND PHRAGMITES AUSTRALIS General: 1 TO 7 INDIVIDUALS (BREEDING) DETECTED AT 7 DIFFERENT POINTS BETWEEN 5 JAN AND 24 MAY 2004. POINTS SAMPLED 1-3 TIMES DURING THE SURVEY PERIOD Owner/Manager: DFG-LOWER SHERMAN ISL WA EO Index: 60105 - Dates Last Seen Occurrence No. 107 Map Index: 60069 Element: 2004-05-25 Occ Rank: Good Origin: Natural/Native occurrence Site: 2004-05-25 Presence: Presumed Extant Record Last Updated: 2005-02-17 Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.04076º / -121.86976º Township: 02N UTM: Zone-10 N4210940 E599178 Range: 01E Mapping Precision: NON-SPECIFIC Section: 04 Qtr: XX Elevation: Symbol Type: POLYGON Meridian: Μ Location: WEST SIDE OF BROWNS ISLAND, NE OF PITTSBURG. Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN. Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND PHRAGMITES AUSTRALIS General: 1 TO 4 INDIVIDUALS (BREEDING) DETECTED AT 5 DIFFERENT POINTS BETWEEN 24 APR AND 25 MAY 2004. POINTS SAMPLED 1-2 TIMES DURING THE SURVEY PERIOD. Owner/Manager: EBRPD

Saltmarsh common yellowthroat

Status

NDDB Element Ranks

Federal: None

State: None

State: None

State: S2

Habitat Associations

General: RESIDENT OF THE SAN FRANCISCO BAY REGION, IN FRESH AND SALT WATER MARSHES.

Micro: REQUIRES THICK, CONTINUOUS COVER DOWN TO WATER SURFACE FOR FORAGING; TALL GRASSES, TULE PATCHES, WILLOWS FOR NESTING.

 Occurrence No.
 108
 Map Index:
 60071
 EO Index:
 60107
 Dates Last Seen

 Occ Rank:
 Good
 Element:
 2004-05-25

 Origin:
 Natural/Native occurrence
 Site:
 2004-05-25

 Presence:
 Presumed Extant

Trend: Unknown Record Last Updated: 2005-02-17

Quad Summary: Antioch North (3812117/481D)

County Summary: Contra Costa

Lat/Long: 38.04000°/-121.85956° **Township:** 02N

 UTM:
 Zone-10 N4210867 E600074
 Range:
 01E

 Area:
 Mapping Precision: NON-SPECIFIC
 Section:
 10
 Qtr: XX

 Elevation:
 5 ft
 Symbol Type: POLYGON
 Meridian:
 M

Location: EAST SIDE OF BROWNS ISLAND, NE OF PITTSBURG.

Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.

Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND

PHRAGMITES AUSTRALIS.

General: 1 TO 5 INDIVIDUALS (BREEDING) DETECTED AT 5 DIFFERENT POINTS BETWEEN 3 JAN AND 25 MAY 2004. POINTS SAMPLED 1-2 TIMES DURING

THE SURVEY PERIOD.

Owner/Manager: EBRPD

 Occurrence No. 3
 Map Index:
 51565
 EO Index:
 51565
 = Dates Last Seen

 Occ Rank:
 Fair
 Element:
 2003-03-19

 Origin:
 Natural/Native occurrence
 Site:
 2003-03-19

 Presence:
 Presumed Extant

 Trend:
 Unknown
 Record Last Updated:
 2003-06-18

Quad Summary: Brentwood (3712186/463B)

 County Summary:
 Contra Costa

 Lat/Long:
 37.99279° / -121.69362°
 Township:
 02N

 UTM:
 Zone-10 N4205820 E614710
 Range:
 03E

 Radius:
 80 meters
 Mapping Precision: SPECIFIC
 Section:
 30
 Qtr: NW

 Elevation:
 10 ft
 Symbol Type: POINT
 Meridian:
 M

Location: 0.25 MILE NW OF THE INTERSECTION OF HIGHWAY 4 AND CYPRESS ROAD, OAKLEY

Location Detail: NEST IS LOCATED IN AN ORNAMENTAL TREE NEAR AN ABANDONED HOUSE.

Ecological: HABITAT SURROUNDING THE NEST TREE CONSIST OF HIGHLY-DISTURBED, SANDY SOILS DOMINATED BY RUDERAL VEGETATION, INCLUDING

WILD RADISH, MILK THISTLE, ROUGH PIGWEED, & SUNFLOWER; ORNAMENTAL TREES WITHIN THE AREA INCLUDE OLIVE, OLEANDER, & ELM.

Threat: THREATENED BY PROPOSED DEVELOPMENT.

General: 4 ADULTS OBSERVED AT THE NEST SITE ON 19 MAR 2003.

Owner/Manager: PVT

Laterallus jamaicensis coturniculus Element Code: ABNME03041 California black rail Other Lists NDDB Element Ranks Status Federal: None Global: G4T1 CDFG Status: State: Threatened State: S1 Habitat Associations -General: INHABITS FRESHWATER MARTSHES, WET MEADOWS & SHALLOW MARGINS OF SALTWATER MARSHES BORDERING LARGER BAYS. Micro: NEEDS WATER DEPTHS OF ABOUT 1 INCH THAT DOES NOT FLUCTUATE DURING THE YEAR & DENSE VEGETATION FOR NESTING HABITAT. Dates Last Seen Occurrence No. 109 Map Index: 34892 EO Index: 7052 1981-11-XX Element: Occ Rank: Poor Origin: Natural/Native occurrence 1981-11-XX Site: Presence: Presumed Extant 1996-08-19 Trend: Unknown Record Last Updated: Quad Summary: Jersey Island (3812116/480C) County Summary: Contra Costa Lat/Long: 38.00600° / -121.71977° Township: 02N UTM: Zone-10 N4207254 E612393 Range: 02E 21.1 acres Mapping Precision: SPECIFIC Section: 23 Qtr: NE Area: Symbol Type: POLYGON Elevation: 5 ft Meridian: M Location: NORTHWEST OF OAKLEY; JUST SOUTH OF BIG BREAK; 1.0 KM WNW OF SEWAGE DISPOSAL PONDS. Location Detail: LAND USE AT TIME WAS MINIMAL (MARSH UNDEVELOPED); ADJACENTS LANDS WERE ABANDONED ASPARAGUS FIELDS AND VINEYARDS; RUDERAL FIELDS EXIST ALONG RR ROW. Ecological: HABITAT PRIMARILY SALICORNIA; BRACKISH MARSH; UPPER MARSH WITH LITTLE TIDAL INFLUENCE (IF ANY); SOILS FAIRLY DRY (EVEN IN Threat: POSSIBLE THREAT: HIGH DENSITY, SINGLE FAMILY HOUSING DEVELOPMENT ADJACENT TO WETLAND. General: 5/18/1978-T. MANOLIS REPORTED 3 CALLING RAILS (WESTERN BIRDS, 9:151-158, 1978). 11/XX/1981-2 ADULTS RESPONDED TO CENSUS TAPE WITH FREQUENT CALL SEQUENCES OF "KIC-KIC-KERR"; OVERALL SITE QUALITY WAS RATED FAIR TO POOR. Owner/Manager: UNKNOWN Occurrence No. 124 Map Index: 62939 EO Index: 62993 Dates Last Seen 1993-04-13 Element: Occ Rank: Unknown Site: 1993-04-13 Origin: Natural/Native occurrence Presence: Presumed Extant 2005-10-25 Record Last Updated: Trend: Unknown Quad Summary: Bouldin Island (3812115/480D), Jersey Island (3812116/480C) County Summary: Contra Costa Lat/Long: 38.00715º / -121.62378º 02N Township: UTM: Zone-10 N4207502 E620819 Range: 03E Area: 132.5 acres Mapping Precision: SPECIFIC Section: 22 Qtr: XX Elevation: 0 ft Symbol Type: POLYGON Meridian: M Location: ISLAND COMPLEX IN SAND MOUND SLOUGH, JUST SOUTH OF BETHEL ISLAND. ABOUT 1 MILE SW OF FRANKS TRACK. Location Detail: TAPED CALLS ALSO PLAYED ON THE TWO ISLANDS TO THE NORTHEAST, BUT NO RAILS DETECTED. General: TAPED CALLS PLAYED AT 11 STATIONS ON 13 APR 1993. RAILS RESPONDED TO CALLS AT 4 STATIONS. Owner/Manager: UNKNOWN EO Index: 69045 Dates Last Seen Occurrence No. 136 Map Index: 68638 Element: 2006-06-19 Occ Rank: Excellent 2006-06-19 Origin: Natural/Native occurrence Site: Presence: Presumed Extant Record Last Updated: 2007-12-13 Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.037490 / -121.862190 Township: 02N UTM: Zone-10 N4210586 E599847 Range: 01E Mapping Precision: SPECIFIC Radius: 80 meters Section: 09 Qtr: XX Elevation: 6 ft Symbol Type: POINT Meridian: M Location: BROWNS ISLAND, JUST NORTH OF PITTSBURG. Location Detail: 2004 LOCATION GIVEN ONLY AS "BROWN'S ISLAND" Ecological: HABITAT CONSISTS OF A NEARLY PURE STAND OF SCHOENOPLECTUS AMERICANUS (55% COVER) TIDAL MARSH, TYPHA ANGUSTIFOLIA (5%), SCHOENOPLECTUS ACUTUS VAR. OCCIDENTALIS (1%), AND DISTICHLIS SPICATA (1%). General: 3 DETECTED IN 2004 DURING BREEDING SEASON SURVEY ON "BROWN'S ISLAND". 1 ADULT OBSERVED JUST SOUTH OF THE MAIN INTERIOR SLOUGH ON 19 JUN 2006 Owner/Manager: EBRPD

Laterallus jamaicensis coturniculus Element Code: ABNME03041 California black rail Other Lists NDDB Element Ranks Status Federal: None Global: G4T1 CDFG Status: State: S1 Habitat Associations -General: INHABITS FRESHWATER MARTSHES, WET MEADOWS & SHALLOW MARGINS OF SALTWATER MARSHES BORDERING LARGER BAYS. Micro: NEEDS WATER DEPTHS OF ABOUT 1 INCH THAT DOES NOT FLUCTUATE DURING THE YEAR & DENSE VEGETATION FOR NESTING HABITAT. **Dates Last Seen** Occurrence No. 174 Map Index: 60061 EO Index: 71474 2005-04-30 Element: Occ Rank: Unknown 2005-04-30 Origin: Natural/Native occurrence Site: Presence: Presumed Extant 2007-12-13 Record Last Updated: Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Sacramento Lat/Long: 38.051780 / -121.820100 Township: 02N UTM: Zone-10 N4212218 E603520 Range: 01E Mapping Precision: NON-SPECIFIC 01 Qtr: XX Area: Section: Symbol Type: POLYGON Elevation: Meridian: M Location: CENTRAL PORTION OF THE NW ISLAND WITHIN THE SHERMAN ISLAND WILDLIFE AREA, APPROXIMATELY 2 MILES NORTH OF ANTIOCH. Location Detail: LOCATION MAPPED ACCORDING TO MAP PROVIDED. Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND PHRAGMITES AUSTRALIS, CURRENT/SURROUNDING LAND USE: WILDLIFE MANAGEMENT AREA, INDUSTRIAL, AGRICULTURE, General: 7 DETECTED IN 2004 DURING BREEDING SEASON SURVEY ON "SHERMAN ISLAND". 4 BREEDING ADULTS DETECTED BETWEEN APR AND MAY 2004. 7 DETECTED ON 30 APR 2005. Owner/Manager: DFG-LOWER SHERMAN ISL WA EO Index: 71475 **Dates Last Seen** Occurrence No. 175 Map Index: 60047 Element: 2005-03-31 Occ Rank: Unknown 2005-03-31 Origin: Natural/Native occurrence Site: Presence: Presumed Extant 2007-12-13 Record Last Updated: Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Sacramento Lat/Long: 38.047550 / -121.828600 Township: 02N UTM: Zone-10 N4211739 E602780 Range: 01E Mapping Precision: NON-SPECIFIC Area: Section: 02 Qtr: E Elevation: 6 ft Symbol Type: POLYGON Meridian: М Location: WEST SIDE OF THE NW ISLAND WITHIN THE SHERMAN ISLAND WILDLIFE AREA, APPROXIMATELY 2 MILES NORTH OF ANTIOCH. Location Detail: LOCATION MAPPED ACCORDING TO MAP PROVIDED. Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND PHRAGMITES AUSTRALIS General: 7 DETECTED IN 2004 DURING BREEDING SEASON SURVEY ON "SHERMAN ISLAND". 3 BREEDING ADULTS DETECTED BETWEEN APR AND MAY 2004. 4 DETECTED ON 30 APR 2005. Owner/Manager: DFG-LOWER SHERMAN ISL WA EO Index: 71476 - Dates Last Seen Occurrence No. 176 Map Index: 60071 Element: 2005-03-31 Occ Rank: Unknown Site: 2005-03-31 Origin: Natural/Native occurrence Presence: Presumed Extant Record Last Updated: 2007-12-13 Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.04000º / -121.85956º Township: 02N UTM: Zone-10 N4210867 E600074 Range: 01E Mapping Precision: NON-SPECIFIC Section: 10 Qtr: XX Elevation: Symbol Type: POLYGON Meridian: M Location: EAST SIDE OF BROWNS ISLAND, NE OF PITTSBURG. Location Detail: LOCATION MAPPED ACCORDING TO MAP PROVIDED. Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND PHRAGMITES AUSTRALIS General: 3 BREEDING ADULTS DETECTED BY VOCALIZATIONS ON 24 APR 2004. 3 DETECTED IN 2004 DURING BREEDING SEASON SURVEY ON "BROWN'S ISLAND". 4 BREEDING ADULTS DETECTED BY VOCALIZATIONS ON 31 MAR 2005. Owner/Manager: EBRPD

Laterallus jamaicensis coturniculus California black rail Element Code: ABNME03041 Other Lists NDDB Element Ranks - Status Federal: None Global: G4T1 CDFG Status: State: Threatened State: S1 - Habitat Associations -General: INHABITS FRESHWATER MARTSHES, WET MEADOWS & SHALLOW MARGINS OF SALTWATER MARSHES BORDERING LARGER BAYS. Micro: NEEDS WATER DEPTHS OF ABOUT 1 INCH THAT DOES NOT FLUCTUATE DURING THE YEAR & DENSE VEGETATION FOR NESTING HABITAT. Occurrence No. 177 EO Index: 71477 - Dates Last Seen Map Index: 60069 2005-03-31 Element: Occ Rank: Good Origin: Natural/Native occurrence Site: 2005-03-31 Presence: Presumed Extant Record Last Updated: 2008-02-25 Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.04076° / -121.86976° Township: 02N UTM: Zone-10 N4210940 E599178 Range: 01E Area: Mapping Precision: NON-SPECIFIC Section: 04 Qtr: XX Elevation: Symbol Type: POLYGON Meridian: Μ Location: WEST SIDE OF BROWNS ISLAND, NE OF PITTSBURG. Location Detail: LOCATION MAPPED ACCORDING TO 2005 MAP PROVIDED. 2004 LOCATION GIVEN ONLY AS "BROWN'S ISLAND". Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION COMPRISED OF SALICORNIA VIRGINICA, SCIRPUS SPP., TYPHA SPP., AND PHRAGMITES AUSTRALIS. General: 6 BREEDING ADULTS DETECTED BY VOCALIZATIONS ON 31 MAR 2005. 3 DETECTED IN 2004 DURING BREEDING SEASON SURVEY ON "BROWN'S ISLAND". Owner/Manager: EBRPD

Oenothera deltoides ssp. howellii Element Code: PDONA0C0B4 Antioch Dunes evening-primrose Other Lists NDDB Element Ranks - Status Federal: Endangered Global: G5T1 CNPS List: 1B.1 State: S1.1 State: Endangered Habitat Associations General: INTERIOR DUNES. Micro: REMNANT RIVER BLUEES AND SAND DUNES EAST OF ANTIOCH 0-30M Dates Last Seen Occurrence No. 1 Map Index: 10588 EO Index: 13828 2001-04-07 Element: Occ Rank: Unknown Origin: Natural/Native occurrence Site: 2001-04-07 Presence: Presumed Extant 2003-07-17 Trend: Unknown Record Last Updated: Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.015090 / -121.793220 Township: 02N UTM: Zone-10 N4208176 E605932 Range: 02E 33.6 acres Mapping Precision: SPECIFIC 18 Area: Section: Qtr: S Symbol Type: POLYGON Elevation: 10 ft Meridian: M Location: DUNES EAST OF ANTIOCH, NORTH OF WILBUR AVE AND EXTENDING WEST BEYOND THE SEWAGE PLANT AND EAST TO THE GYPSUM PLANT. Location Detail: INCLUDES PART OF THE STAMM UNIT OF THE USFWS ANTIOCH DUNES PRESERVE. SEV SUBPOPS LUMPED HERE: "NORTHEAST," "E PLATEAU," "TRIANGLE SECTION TO OAKS," "SOUTHEAST, "SOUTH OF PATH," AND "HARD PAN #4," AND POSSIBLY MORE. Ecological: GROWING ON STABILIZED DUNES ON LOOSE SAND. ASSOCIATED WITH ERYSIMUM CAPITATUM VAR ANGUSTATUM. CENTAUREA SOLSTITIALIS INVASIVE IN SOME AREAS. Threat: SAND EXCAVATION, COMPETITION WITH EXOTICS, AND BEETLE PREDATION THREATEN. SITE IS SURROUNDED BY INDUSTRY. General: MANY PLANTS IN 1977, 150 IN 1978, FEW IN 1980. 4320 SEEN OVER BOTH REFUGE UNITS IN 1988 & 5181 SEEN IN 1990. 350 OBS IN 2001. DESIGNATED CRITICAL HABITAT IN 1978 BY USFWS. SITE IS ACTIVELY MANAGED BY USFWS TO ENHANCE RARE PLANTS. Owner/Manager: USFWS-ANTIOCH DUNES NWR EO Index: 13827 Dates Last Seen Occurrence No. 4 Map Index: 10622 2001-04-14 Element: Occ Rank: Unknown Site: 2001-04-14 Origin: Natural/Native occurrence Presence: Presumed Extant 2003-07-17 Record Last Updated: Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.01407° / -121.78365° 02N Township: UTM: Zone-10 N4208074 E606773 Range: 02E Area: 31.1 acres Mapping Precision: SPECIFIC Section: 17 Qtr: S Elevation: 40 ft Symbol Type: POLYGON Meridian: M Location: DUNES EAST OF ANTIOCH, NORTH OF WILBUR AVE & EAST OF THE GYPSUM PLANT; INCLUDES THE AREA OF THE TWO PGE TOWERS. Location Detail: SITE INCLUDE THE SARDIS UNIT OF THE USFWS ANTIOCH DUNES RESERVE. SEV SUBPOPS INCL HERE INCLUDING "SARDIS UNIT." 1992 DUNES," S OF 1992 DUNES," S PLATEAU," "SW CORNER SLOPE," 1993 DUNES," S SLOPE," W OF PG&E UNIT," AND POSSIBLY MORE. Ecological: GROWING ON STABILIZED INTERIOR DUNE ALONG RIVER BLUFFS AND IN LOOSE SAND. ASSOCIATED WITH GUTIERREZIA SP. ERYSIMUM CAPITATUM ANGUSTATUM, ERIOGONUM NUDUM AURICULATUM. Threat: INVASIVE EXOTICS, SAND MINING, BEETLE PREDATION THREATEN. INDUSTRY SURROUNDS THE SITE. General: 90 PLANTS IN 1977, 872 IN 1978, 100'S IN 1979, 50 IN 1981. 4320 SEEN OVER BOTH UNITS OF REFUGE IN 1988, 5181 IN 1990. 264 PLANTS OBSERVED IN 2001. USFWS DESIGNATED CRITICAL HABITAT IN 1978. ACTIVELY MANAGED BY USFWS FOR THE RARE PLANTS. Owner/Manager: PVT, USFWS-ANTIOCH DUNES NWR Dates Last Seen Occurrence No. 7 Map Index: 10368 EO Index: 18813 Element: 1979-XX-XX Occ Rank: Unknown 1979-XX-XX Origin: Natural/Native occurrence Site: Presence: Presumed Extant Record Last Updated: 1994-07-15 Trend: Unknown Quad Summary: Antioch North (3812117/481D) County Summary: Contra Costa Lat/Long: 38.03408º / -121.86634º 02N Township: UTM: Zone-10 N4210203 E599487 Range: 01E Mapping Precision: NON-SPECIFIC Radius: 1/5 mile 9 Qtr: XX Section: M Flevation: Symbol Type: POINT Meridian: Location: BETW PITTSBURG & BROWN ISL AT NEW YORK SLOUGH. Ecological: IN SAND DUNES. General: 10 PLANTS THRIVING IN 1979. 10 PLANTS SUCCESSFULLY TRANSPLANTED IN 1978. Owner/Manager: PVT

Oenothera deltoides ssp. howellii

Antioch Dunes evening-primrose Element Code: PDONA0C0B4

 Status
 NDDB Element Ranks
 Other Lists

 Federal: Endangered
 Global: G5T1
 CNPS List: 1B.1

State: Endangered State: S1.1

Habitat Associations -General: INTERIOR DUNES.

Micro: REMNANT RIVER BLUFFS AND SAND DUNES EAST OF ANTIOCH. 0-30M.

 Occurrence No.
 8
 Map Index:
 10328
 EO Index:
 18814
 — Dates Last Seen

 Occ Rank:
 Unknown
 Element:
 1984-XX-XX

Occ Rank: Unknown
Origin: Transplant Outside of Native Hab./Range

Presence: Presumed Extant
Trend: Unknown Record Last Updated: 1995-12-29

Trend: Unknown Record Last Updated: 1995-12-2

Quad Summary: Antioch North (3812117/481D), Honker Bay (3812118/481C)

County Summary: Contra Costa

 Lat/Long:
 38.03964°/-121.87773°
 Township:
 02N

 UTM:
 2one-10 N4210807 E598480
 Range:
 01E

 Radius:
 1/5 mile
 Mapping Precision: NON-SPECIFIC
 Section:
 9
 Qtr: XX

 Elevation:
 Symbol Type: POINT
 Meridian:
 M

Location: ON THE WEST END OF BROWN'S ISLAND.

Ecological: IN SAND DUNES. ASSOCIATED WITH PHYLLA, RUBUS, CYNODON DACTYLON, AND ENCROACHING WETLAND PERENNIALS (I.E. JUNCUS).

Threat: ONLY APPARENT THREAT IS FROM ENCROACHING VEGETATION (WEEDS IN ADDITION TO WETLAND SP.).

General: 10 PLANTS SUCCESSFULLY TRANSPLANTED IN 1978, 10 PLANTS OBSERVED THRIVING IN 1979. 6 PLANTS SEEN IN 1984, 1985, OR 1986 BY

HAVLIK. IN 1978.

Owner/Manager: PVT, REG PARKS, STATE?

Occurrence No. 9 Map Index: 26065 EO Index: 5204 — Dates Last Seen —

 Occ Rank:
 Fair
 Element:
 1999-12-15

 Origin:
 Natural/Native occurrence
 Site:
 1999-12-15

 Presence:
 Presumed Extant
 Presumed Extant
 Record Last Updated:
 2003-07-17

Quad Summary: Jersey Island (3812116/480C)

County Summary: Contra Costa

 Lat/Long:
 38.00357° / -121.72898°
 Township:
 02N

 UTM:
 20ne-10 N4206973 E611588
 Range:
 02E

Radius: 80 meters Mapping Precision: SPECIFIC Section: 23 Qtr: W

Elevation: 19 ft Symbol Type: POINT Meridian: M

Location: NORTH OF OAKLEY, JUST EAST OF SOUTH-TENDING BEND OF HIGHWAY 4. SOUTH OF BIG BREAK.

Location Detail: NORTH SIDE OF RAILROAD TRACKS. ADJACENT TO EAST BAY REGIONAL PARK LAND "BIG BREAK."

Ecological: INLAND DUNE HABITAT; VERY WEEDY.

Threat: POSSIBLY THREATENED BY EXOTIC SPECIES.

General: 12-20 PLANTS OBSERVED IN 1994 BY LINDENMEYER. 10-30 PLANTS OBSERVED IN 1995, 1996 & 1997. 30 PLANTS IN 1998. SITE BURNED IN 1999,

PLANTS PRESENT IN DECEMBER VISIT. NEEDS FIELDWORK TO LOCATE LINDENMEYER & MUTH SITES MORE PRECISELY.

Owner/Manager: PVT

Site:

1984-XX-XX

Thamnophis gigas Element Code: ARADB36150 giant garter snake Other Lists NDDB Element Ranks Status Federal: Threatened Global: G2G3 CDFG Status: State: S2S3 **Habitat Associations** General: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES. Micro: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA. Dates Last Seen Occurrence No. 47 Map Index: 24895 EO Index: 27584 19XX-XX-XX Element: Occ Rank: Unknown Origin: Natural/Native occurrence Site: 1987-XX-XX Presence: Presumed Extant 1999-12-06 Record Last Updated: Trend: Unknown Quad Summary: Antioch North (3812117/481D), Jersey Island (3812116/480C) County Summary: Sacramento 38.02960° / -121.75083° Lat/Long: Township: 02N UTM: Zone-10 N4209835 E609631 Range: 02E Radius: 1/5 mile Mapping Precision: NON-SPECIFIC 10 Qtr: XX Section: Symbol Type: POINT Μ Elevation: 10 ft Meridian: Location: SAN JOAQUIN RIVER AT NORTH END OF ANTIOCH BRIDGE, (OFF ROUTE 160, ABOUT 4.1 MILES EAST OF ANTIOCH). General: SPECIMEN DEPOSITED IN UNIVERSITY OF MICHIGAN MUSEUM OF ZOOLOGY. SNAKE OBSERVED PROIR TO, BUT NOT DURING 1986-87 STUDY BY G. HANSEN Owner/Manager: UNKNOWN Occurrence No. 150 Map Index: 39776 EO Index: 34778 Dates Last Seen 1998-08-24 Element: Occ Rank: Fair 1998-08-24 Natural/Native occurrence Origin: Site: Presence: Presumed Extant 1998-09-22 Record Last Updated: Trend: Unknown Quad Summary: Jersey Island (3812116/480C) County Summary: Sacramento Lat/Long: 38.086890 / -121.707710 Township: 03N UTM: Zone-10 N4216244 E613327 Range: 02E 24 Mapping Precision: NON-SPECIFIC Qtr: XX Area Section: Elevation: Symbol Type: POLYGON Meridian: Х Location: BETWEEN HWY 160 AND HORSESHOE BEND, SOUTH OF BRANNAN ISLAND STATE RECREATION AREA. Location Detail: SNAKE OBSERVED ON THE WATER SIDE OF THE LEVEE. Ecological: VEGETATION IS RUDERAL HERBACEOUS, ALONG A SAND BAR, WITH LOTS OF WATER HYACINTH, SOME SCIRPUS, BLACKBERRY, AND A FEW YOUNG COTTONWOODS; SOME CONCRETE RIPRAP. Threat: THREATENED BY ACTIVELY ERODING LEVEES AND ASSOCIATED EMERGENCY REPAIRS. General: 1 ADULT SNAKE OBSERVED ON 24 AUGUST 1998. Owner/Manager: UNKNOWN Occurrence No. 170 Map Index: 47697 EO Index: 47697 **Dates Last Seen** Element: 2002-04-02 Occ Rank: Fair 2003-09-23 Origin: Natural/Native occurrence Site: Presumed Extant Presence: 2005-06-28 Record Last Updated: Trend: Unknown Quad Summary: Jersey Island (3812116/480C) County Summary: Contra Costa Lat/Long: 38.05708º / -121.64667º Township: 03N UTM: Zone-10 N4213012 E618729 Range: 03E Radius: Mapping Precision: SPECIFIC Section: 33 Qtr: XX 80 meters Elevation: Symbol Type: POINT Meridian: Location: SW LEVEE OF WEBB TRACT, 10 MILES NE OF ANTIOCH Location Detail: SNAKE WAS FOUND NEAR THE FERRY DOCK Ecological: SURROUNDING HABITAT CONSISTS OF AGRICULTURE AND ASSOCIATED IRRIGATION DITCHES, WITH SOME FIELDS STILL PARTIALLY FLOODED; TWO BLOW-OUT PONDS ON THE OPPOSITE SIDE OF THE ISLAND. Threat: THREATENED BY LAND USE PRACTICES (AGRICULTURE, FLOODING, ETC) AND A POTENTIAL WATER STORAGE PROJECT. General: 1 ADULT CAPTURED ON 2 APR 2002. SNAKES WERE NOT OBSERVED DURING ACTIVE OR INCIDENTAL SURVEYS OR DURING TRAPPING ON WEBB TRACT- TRAPPING OCURRED 19 MAY-23 SEP 2003. Owner/Manager: PVT